

Contents

List of Contributors	IX
Preface	XI
Abbreviations.....	XII
1 Physical Analysis of Chromosome Size Variation	1
Colin Dale, Wendy Smith and Howard Ochman	
2 Genetic Mapping in <i>Salmonella enterica</i>	10
Josep Casadesus and Eva M. Camacho	
3 Insertion Sequences as Genomic Markers.....	22
Dominique Schneider and Michel Blot	
4 The Use of Noncoding Microsatellite Length Analysis for Bacterial Strain Typing.	34
David Metzgar	
5 How to Amplify Easily, on the Bacterial Chromosome, a Desired DNA Sequence	41
Richard D'Ari and Daniel Vinella	
6 Generalized Transduction	50
Anne Thierauf and Stanley Maloy	
7 Use of Conditional-replication, Integration, and Modular CRIM Plasmids to Make Single-copy <i>lacZ</i> Fusions.....	65
Lu Zhou, Soo-Ki Kim, Larisa Avramova, Kirill A. Datsenko and Barry L. Wanner	
8 Genetic Footprinting for Bacterial Functional Genomics	90
Scott S. Walker, Chad Houseweart and Teresa J. Kenney	
9 Gene Transfer to Plants through Bacterial Vectors	102
Bruno Tinland	
10 Quorum Sensing: Approaches to Identify Signals and Signalling Genes in Gram-negative Bacteria	110
Simon Swift	
11 Transcriptional Profiling in Bacteria Using Microarrays	131
Michael T. Laub and R. Frank Rosenzweig	
12 Transcriptome Analysis by Macroarrays.....	145
Cécile Jourlin-Castelli, François Denizot and Philippe Boulloc	
13 Prokaryotic Proteomics	157
Cécile Lelong and Thierry Rabilloud	

14 Intein-mediated Protein Purification	172
Shaorong Chong and Francine B. Perler	
15 Two-hybrid Assay in <i>Escherichia coli</i> K12	194
Gustavo Di Lallo, Patrizia Ghelardini and Luciano Paolozzi	
 Guide to Protocols	 205
Index	207